PATENT

S/N 09/135.413

IN THE UNITED STATES PAIGNT AND TRADEMARK OFFICE

Applicant:

Leonard Forbes et al.

Serial No.:

09/135,413

Filed:

August 14, 1998

Title:

Docket: 303.354US2 METHOD FOR OPERATING OM HAVING AN AMORPHOU

MAR 1 6 2000

SILICON CARBIDE GATE INSULATOR

Examiner: Viet Q. Nguyen

Group Art Unit: 2818

AMENDMENT AND RESPONSE

Assistant Commissioner for Patents Washington, D.C. 20231

Applicant has reviewed the Office Action mailed on December 13, 1999. Please amend the above-identified patent application as follows.

IN THE CLAIMS

Please amend the following claim:

29. (Twice Amended) The method of claim 25 wherein programming [the] a floating gate [transistor] electrode further comprises causing hot electron injection from the channel through an amorphous silicon carbide (a-SiC) gate insulator to the floating gate electrode.

Please add the following new claims:

64.(New)

A method of using a floating gate transistor, comprising:

programming a floating gate electrode of the floating gate transistor by placing a charge on the floating gate electrode, wherein the floating gate transistor has a barrier energy between the floating gate electrode and a silicon carbide (SiC) gate insulator separating the floating gate electrode from a substrate, the barrier energy being less than approximately 3.3 eV;

reading the floating gate transistor by placing a read voltage on a control gate and detecting current in a channel between a source region and a drain region in the substrate; and erasing the floating gate transistor.

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